

WIRELESS ELECTROSTATIC CHARGING AND COMMUNICATING
SYSTEM

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ABSTRACT OF THE DISCLOSURE

10 The wireless electrostatic charging and communicating system
includes an electrostatic reader, an electrostatic charger and an
electrostatic rechargeable device or electrostatic transceiver such as
such as a smart card or radio frequency identification (RFID) card without
requiring physical contact to electrodes. The electrostatic system is
15 capacitance based and the charging and communicating occurs over
capacitively coupled electrostatic electrodes or electrostatic electrodes.
The electrostatic rechargeable device or transceiver includes a charge
receiver and an energy storage means, for being charged or
communicated with in the electrostatic system. The energy storage
20 means may be any energy storage device including a rechargeable
battery or capacitor. In a second embodiment, the electrostatic
rechargeable device or transceiver includes an electrostatic charge
receiver and an electromagnetic charge receiver with the energy storage
means so that it may be alternatively charged or communicated with in an
25 electrostatic system or an electromagnetic system for compatibility in
either system.

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